AN ACCESS INDEPENDENT COMMON ARCHITECTURE FOR REAL-TIME
COMMUNICATIONS SERVICES FOR NETWORKING ENVIRONMENTS
Radhika R. Roy et al.
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Figure 1
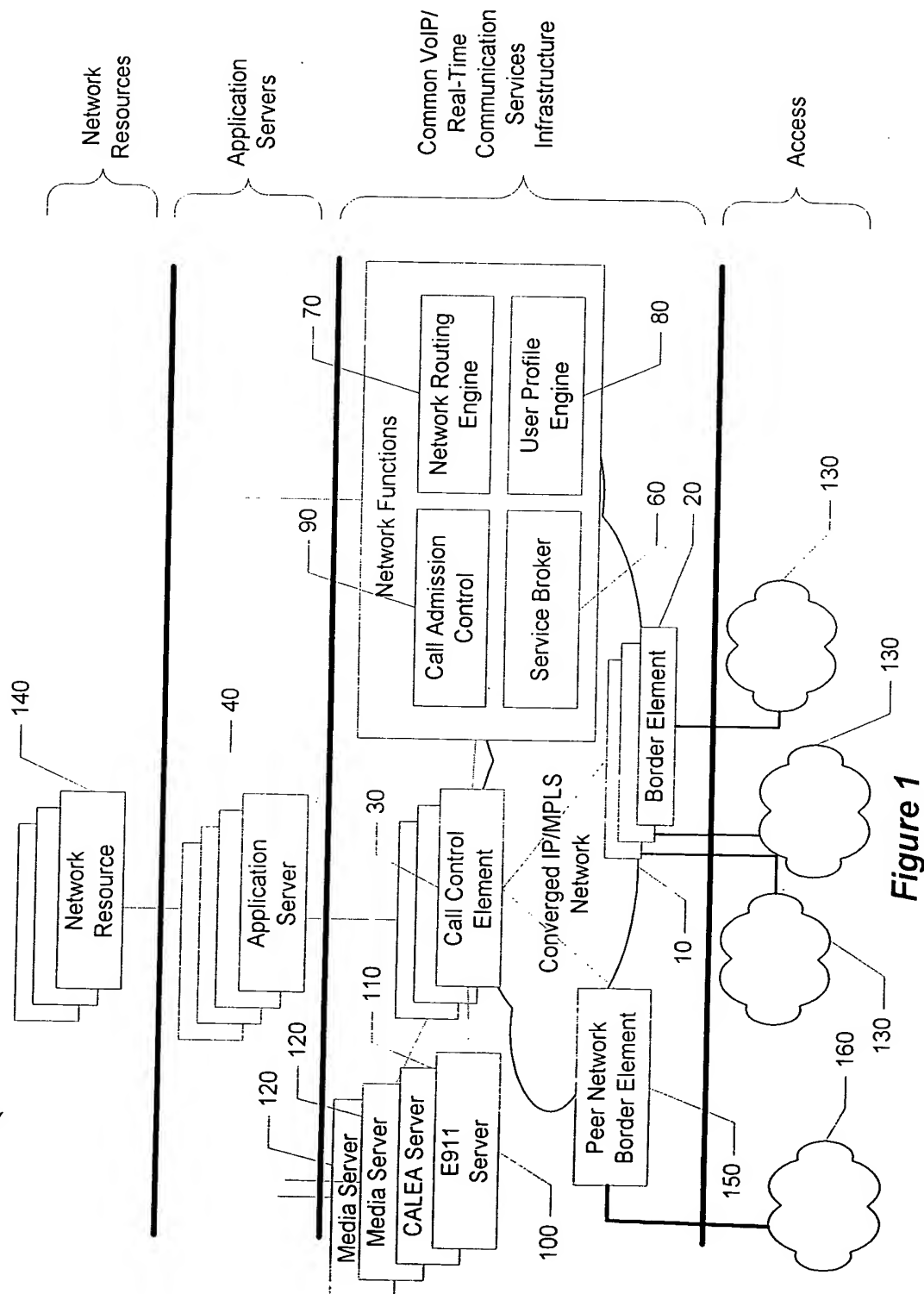
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Figure 2

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Figure 3

AN ACCESS INDEPENDENT COMMON ARCHITECTURE FOR REAL-TIME
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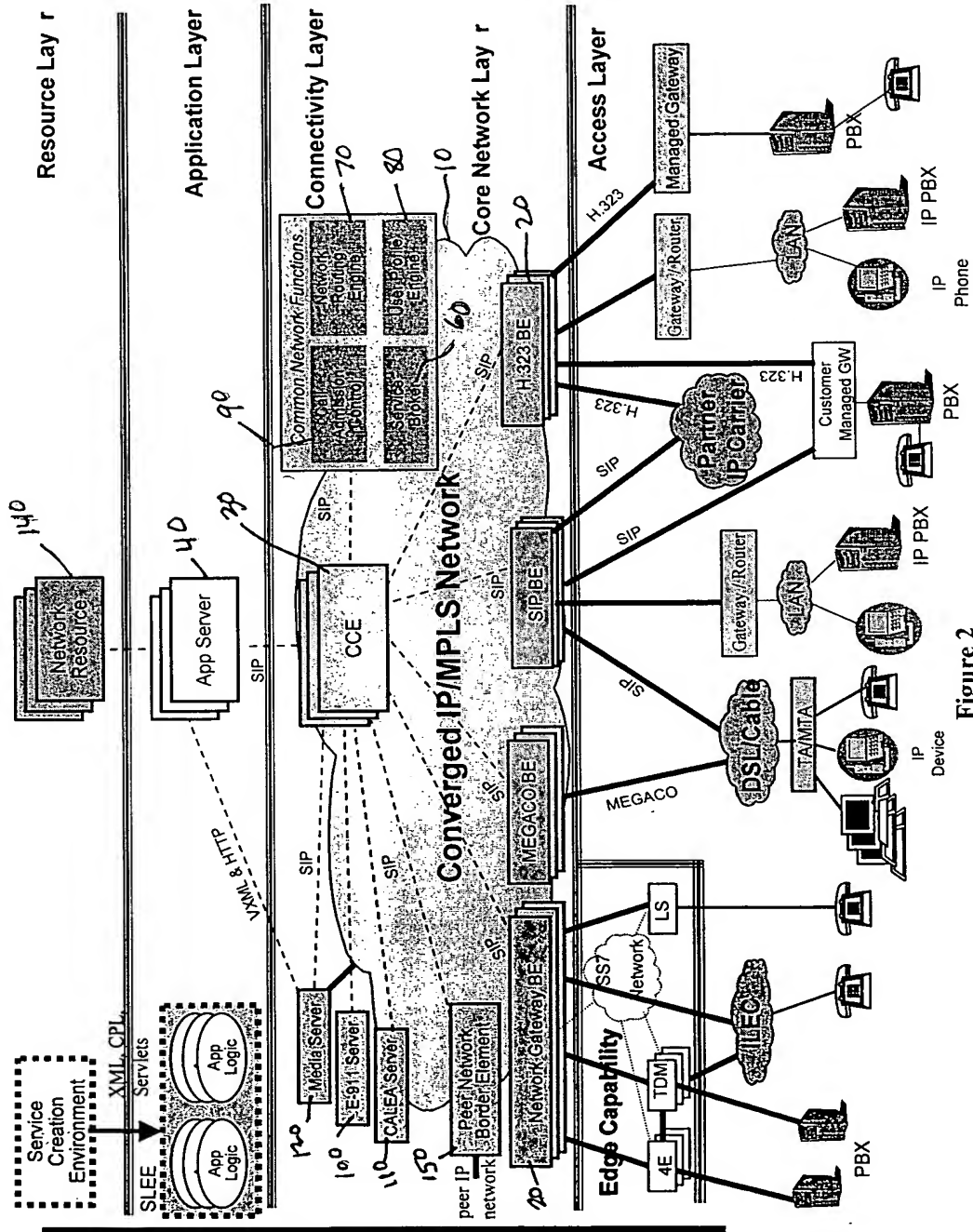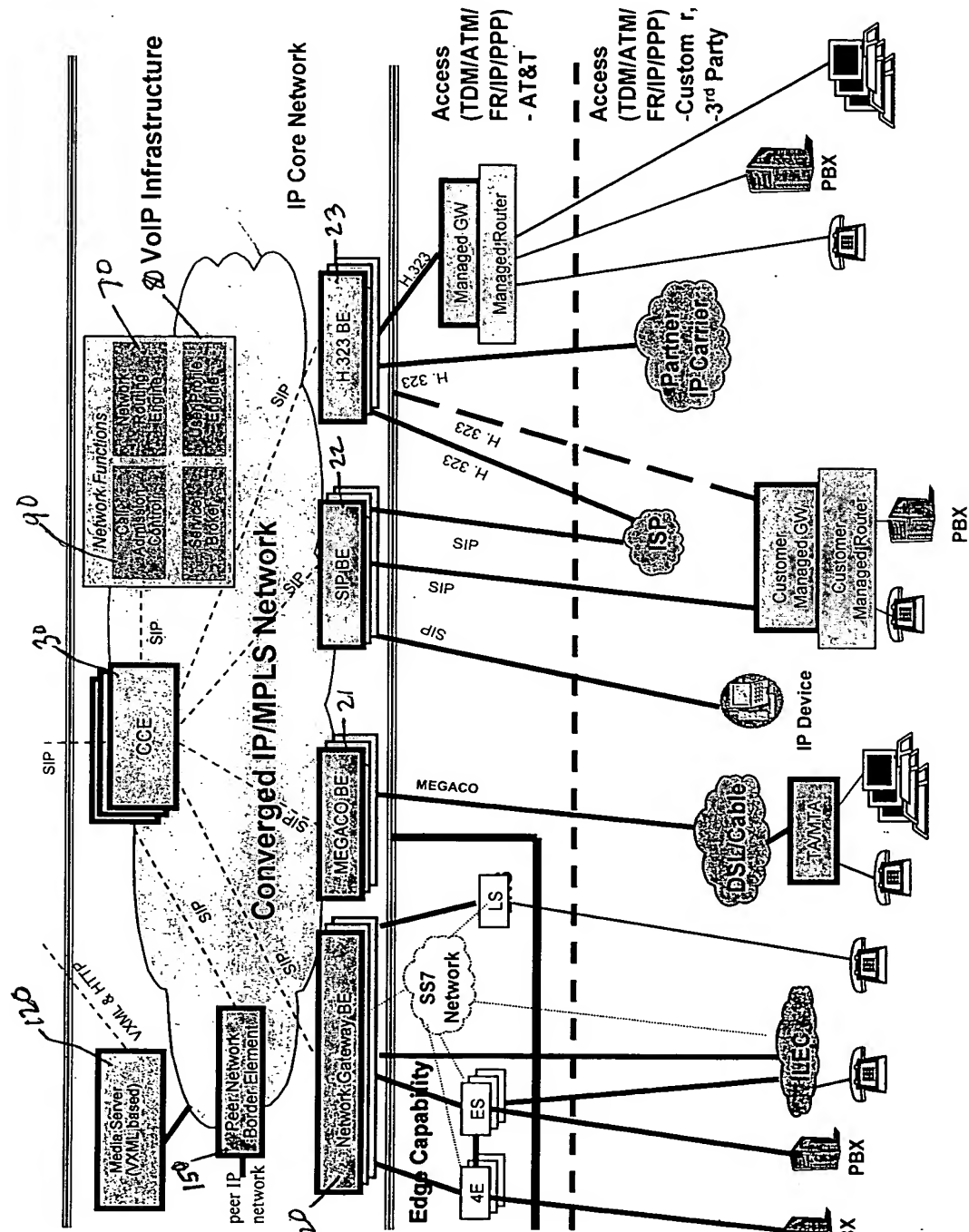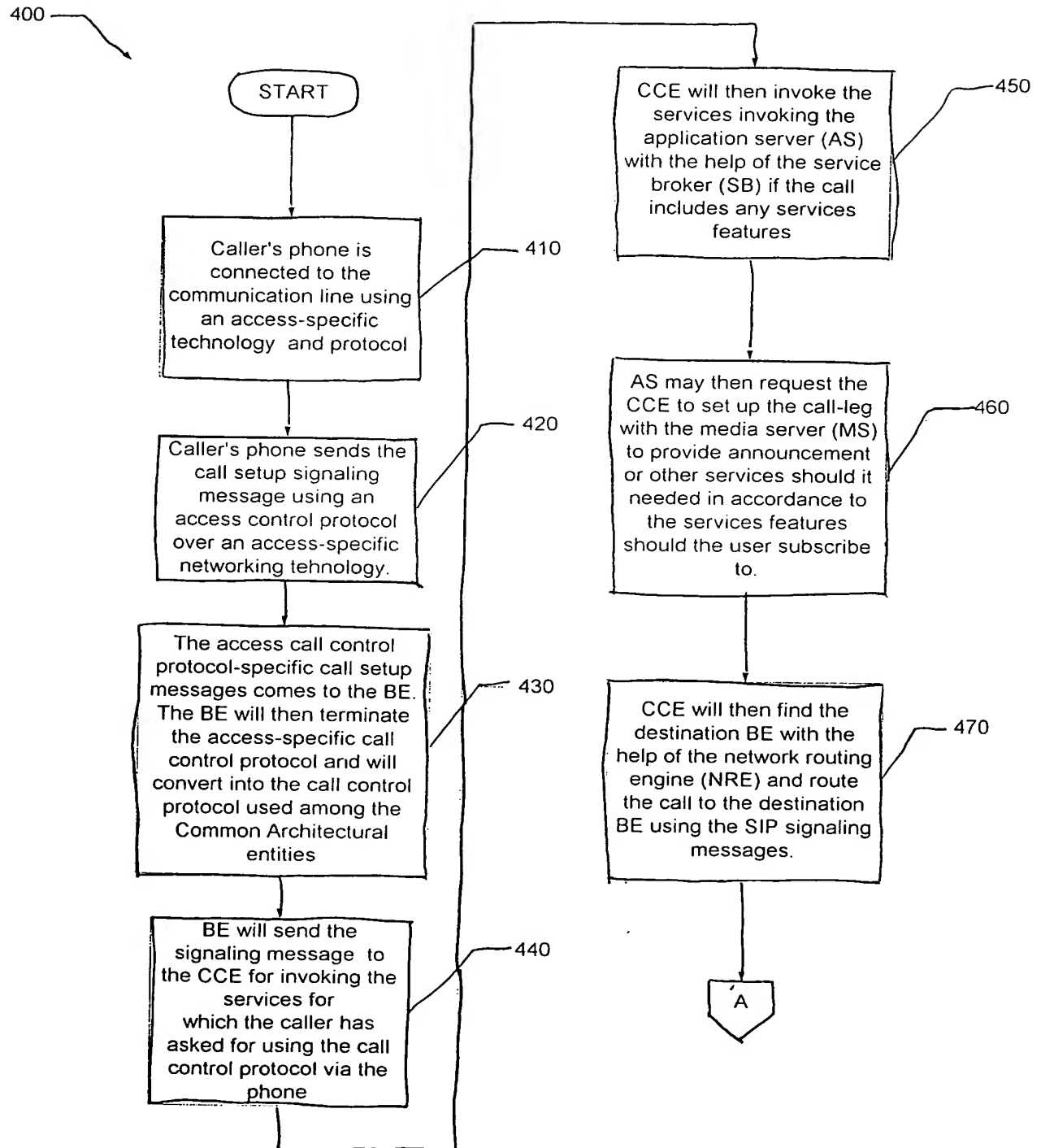Radhika R. Roy et al.
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400 —

START

Caller's phone is
connected to the
communication line using
an access-specific
technology and protocol — 410

Caller's phone sends the
call setup signaling
message using an
access control protocol
over an access-specific
networking tehnology. — 420

The access call control
protocol-specific call setup
messages comes to the BE.
The BE will then terminate
the access-specific call
control protocol and will
convert into the call control
protocol used among the
Common Architectural
entities — 430

BE will send the
signaling message to
the CCE for invoking the
services for
which the caller has
asked for using the call
control protocol via the
phone — 440

CCE will then invoke the
services invoking the
application server (AS)
with the help of the service
broker (SB) if the call
includes any services
features — 450

AS may then request the
CCE to set up the call-leg
with the media server (MS)
to provide announcement
or other services should it
needed in accordance to
the services features
should the user subscribe
to. — 460

CCE will then find the
destination BE with the
help of the network routing
engine (NRE) and route
the call to the destination
BE using the SIP signaling
messages. — 470

A

Figure 4A

AN ACCESS INDEPENDENT COMMON ARCHITECTURE FOR REAL-TIME
COMMUNICATIONS SERVICES FOR NETWORKING ENVIRONMENTS
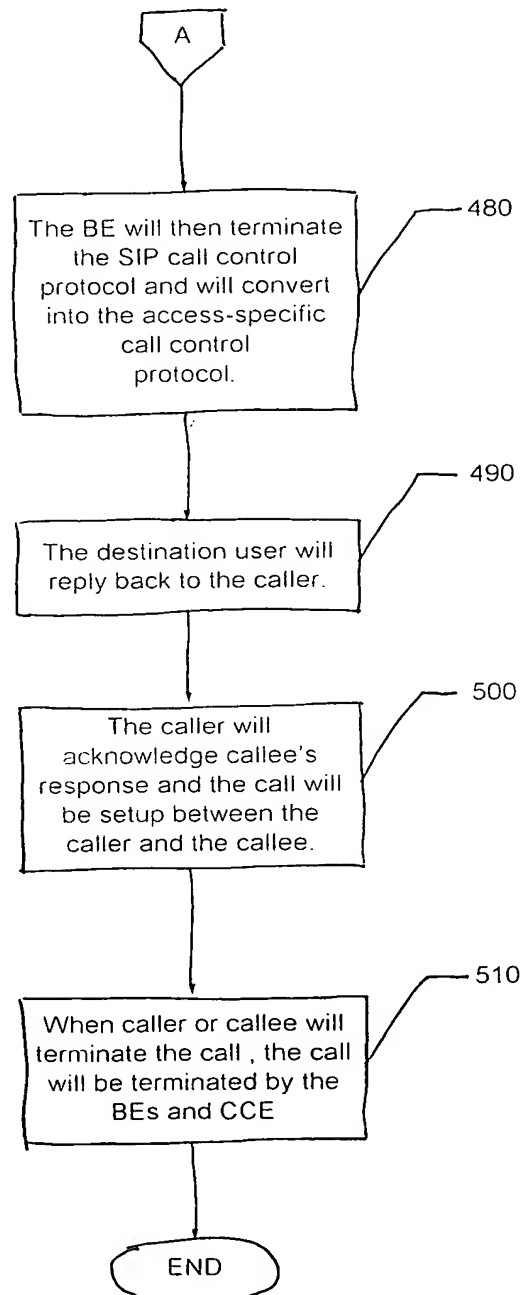Radhika R. Roy et al.
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A

The BE will then terminate the SIP call control protocol and will convert into the access-specific call control protocol. ⎯ 480

The destination user will reply back to the caller. ⎯ 490

The caller will acknowledge callee's response and the call will be setup between the caller and the callee. ⎯ 500

When caller or callee will terminate the call , the call will be terminated by the BEs and CCE ⎯ 510

END

Figure 4B